

**METHODS AND SYSTEMS FOR MULTI-MODAL BROWSING AND
IMPLEMENTATION OF A CONVERSATIONAL MARKUP LANGUAGE**

Abstract of the Disclosure

5 A new application programming language is provided which is based on user
interaction with any device which a user is employing to access any type of information.
The new language is referred to herein as a "Conversational Markup Language (CML).
In a preferred embodiment, CML is a high level XML based language for representing
"dialogs" or "conversations" the user will have with any given computing device. For
10 example, interaction may comprise, but is not limited to, visual based (text and graphical)
user interaction and speech based user interaction. Such a language allows application
authors to program applications using interaction-based elements referred to herein as
"conversational gestures." The present invention also provides for various embodiments
of a multimodal browser capable of supporting the features of CML in accordance with
15 various modality specific representations, e.g., HTML based graphical user interface
(GUI) browser, VoiceXML based speech browser, etc.

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